

T-4103 (TRANSFORMER BASED)

THREE PHASE - **10 to 40 kVA**



BUILT-IN OUTPUT ISOLATION TRANSFORMER

FEATURES

- **Wide Input Voltage Range**
Reduce the chance of battery drainage and extends battery life.
- **Robust ECO Mode**
Up to 98% efficiency with higher system reliability.
- **Parallel Redundancy**
Up to eight units can be paralleled for redundancy or expansion.
- **Self-diagnosis**
Self-diagnosis and aging detection to minimize downtime risk.
- **High Performance**
Advanced SCR rectifier and IGBT technology.

ONLINE DOUBLE CONVERSION PURE SINE WAVE LOW FREQUENCY WITHOUT BATTERIES

The i-power T-4103 series is a true online double-conversion UPS that can provide your critical equipment with reliable and stable power. It features significant advantages, including an output power factor of 0.9 and up to 90% AC-AC efficiency for greater energy savings.

- GUARANTEEING A STABLE AC MAINS VOLTAGE

The i-power T-4103 series offers the maximum available power, energy efficiency, and power performance for large data centres, telecommunication center, production line and related devices, requiring high power ratings and highly reliable power protection.

T-4103

THREE PHASE

- **Greater Energy Savings**
AC-AC efficiency up to 90% for greater energy savings.
- **High Overload Handling Ability**
High Load Compatibility and short-circuit protection.
- **Tested and Verified**
All devices are fully tested and verified for maximum performance.

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TECHNICAL SPECIFICATION

Model	OL3010T93200S	OL3015T93200S	OL3020T93200S	OL3030T93200S	OL3040T93200S
Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW
UPS Structure	Online Double Conversion				
Topology	Low Frequency with Output Isolation Transformer				
Overall Efficiency (AC-AC)	>90%				
Noise (In 2 metres)	<50dB to 60dB				
Working Temperature	-10°C to 40°C				
Storage Temperature	-25°C to 60°C (Without Batteries)				
Humidity	<95% Non-Condensing				
National Standard	EN50091-1/IEC950				
International Standard	EN 50091-1/2, EN62040-1, EN62040-2				
Parallel Redundancy	Available upto 8 units				
Protections	Overload, Short-Circuit, Over Temperature, Utility Power Voltage High/Low, BAT Voltage High/Low				
ECO	Available				
EPO Function	Available				
DC Start	Available				
Generator Compatibility	Available				
Display	LCD/LED				
Mute	Auto				
IP Rating	IP20				
Cooling System	Intelligent Speed Control Cooling Fan				
Elevation	<1500M, Without Derating				

RECTIFIER SPECIFICATION

Input Voltage	380Vac+N+W (3 Phase + PE)				
Input Voltage Range	285Vac to 475Vac				
Input Frequency Range	45Hz to 65Hz				
Input Power Factor	0.95 (with input filter)				
THDI	<5% (with optional accessories)				
Dual Input Availability	Available (optional accessories)				
Input Mis Phase Protection	Misphase Alarm, UPS will not be started				
Input Phase lost Protection	Phase Lost Alarm, UPS work on Bypass mode				
Soft-Start	>20 Seconds				
Input Current	23A	31A	39A	54A	70A

BYPASS SPECIFICATION

Static Bypass Transfer Time	0ms
Static Bypass Input Range	380Vac (-15 to+15%)
Frequency Range	50Hz to 60Hz ±1Hz, ±2Hz, ±3Hz Adjustable
Bypass - INV Transfer Time	2ms
Frequency Tracking Speed	0.5Hz to 2Hz/s
Manual Maintenance Bypass	Available

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OUTPUT SPECIFICATION

Output Voltage	Line Voltage: 380×(1±1%) AC or Phase Voltage: 220×(1±1%) AC
Output Power Factor	0.8/0.9 (No lag)
Output Voltage Regulation	380Vac±1%(Static Load); 380Vac±2%(50-0% Sudden Change); 380Vac±3%(100-0% Sudden Change)
Output Frequency	±8% at 50Hz: Online Mode tracking input and bypass freq.; ±0.1%: when input or bypass frequency is more than ±8% or under BAT Mode
THDI	<1% (Linear Full Load), <3% (Non-Linear Full Load)
3 Phase Unbalanced	Allow 3 Phase 100% Unbalanced
Output Volt. Unbalanced	≤1°(Balanced Load); ≤2°(50% Balanced Load)
Input/Output Phase Swift	≤1°(Balanced Load); ≤2°(50% Balanced Load)
Frequency Tracking Range	45Hz to 65Hz
Output Waveform	Pure Sine Wave
Overload	>125%: More than 10 mins; > 150%: More than 60s transfer to bypass
Crest Ratio	3:1
Short-Circuit	Circuit Auto-Protection, Bypass Switch Tripping
Output Abnormal	INV. Output Auto-Locked Protection

BATTERY SPECIFICATION

Model	OL3010T93200S	OL3015T93200S	OL3020T93200S	OL3030T93200S	OL3040T93200S
Capacity	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW	30KVA / 27KW	40KVA / 32KW
Charging Methods	DSP Controlled Charger: Equalized/Pulse Charge, Float Charge, Intelligent Battery Management				
Type	Sealed Lead Acid Maintenance Free				
VDC	336VDC to 384VDC				
Float Charge Voltage	438Vdc				
Charging Current	5-10A				
Abnormal Protections	BAT Over-Charged, Emergency charger shutdown protection or UPS shutdown protection				

COMMUNICATION SPECIFICATION

Std. Communication Port	Rs232
Optional	SNMP/RS485/Dry Contact
Remote Software	Multi-Functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control

PHYSICAL CHARACTERISTICS

Dimensions (W×H×D) mm	475×990×700			550×1200×800	
Net Weight (Kg)	210	223	230	280	330